

THE Y-12 BULLETIN

A NEWSPAPER BY AND FOR Y-12 EMPLOYEES OF CARBIDE AND CARBON CHEMICALS DIVISION

Union Carbide And Carbon Corporation

Volume 4, No. 9

OAK RIDGE, TENNESSEE

Wednesday, March 1, 1950



6-1178
IT IS TYPICAL Y-12ERS LIKE THOSE PICTURED ABOVE—FROM LEFT, R. R. PATTERSON, a rigger in the Buildings and Grounds Department; Dorothy E. Caldwell, of the Chemical Research Department; and J. A. Griffin, metallurgical assistant in the Isotope Research and Production Department—that keep the splendid plant safety record rolling along on an even keel. They have just taken a look at the safety scoreboard at the North Portal last Thursday that showed the number of days operated in Y-12 without a disabling accident to have passed the previous mark of 246, and are understandably proud of their part in the achievement. Y-12ers now are looking forward to working more than 2,850,000 man-hours without a lost time accident to exceed the record previously posted. The plant now has operated for well more than 2,000,000 man hours without such an accident.

Y-12 Photos By Vince Moore

Y-12ers Are Urged Again To Lead Ridge In Reporting 'Over The Top' In Red Cross Drive Opening Today

The 1950 fund raising campaign of the Oak Ridge Chapter of the American Red Cross will be launched today in Y-12 when distribution of pledge cards will begin under direction of a plant solicitation committee. The Oak Ridge chapter has set a goal of \$19,272 and the Y-12 committeemen have announced their objective of having the plant top its record of the past two years when it went "over the top" in seven and eight days and considerably oversubscribed its assigned quota.

In both 1948 and 1949 Y-12ers were the first major group in Oak Ridge to report reaching its quota and every effort will be put forward to maintain this record for the third consecutive year. Participation of Y-12ers on a 100 per cent basis is urged to reach this goal.

Y-12 Superintendent W. D. Lavers is chairman of the plant solicitation committee. H. O. Ramey, Superintendent of the Employment Department, is co-chairman. Other members of the committee are J. E. Keeton, Isotope Research and Production; K. O. Johnson, Chemical Research; Paschal Hamrick, Industrial Relations; W. S. Herron, Chemical; J. C. Little, Plant Engineering; L. E. Parsons, Electromagnetic Research Laboratory; Nelson Tibbatts, Maintenance Division; B. F. Whitaker, Manufacturing Offices; and W. C. Davis, Stores.

Leo Grant is chairman of the fund raising campaign for the Oak Ridge Chapter and has expressed the hope that the 1950 drive will enable the chapter to exceed its 1949 membership of 10,138 members. Success of the campaign, he pointed out, will enable the chapter to continue its humanitarian program for the city and its residents.

Among the major projects of the Red Cross Chapter are the blood donor program, first aid, water safety, disaster service, nutrition, home services, the Gray Lady Corps, production corps, motor corps and Junior Red Cross.

Blood Donor Program Cited By Chapter

During 1949 through the assistance of volunteers to the blood donor program of the Oak Ridge Chapter, 1,228 pints of blood were donated for use in the Oak Ridge Hospital and for Oak Ridge residents.

Great progress also was made in the water safety and first aid programs of the chapter. During 1949 1,345 persons were enrolled in swimming classes under the program, including children and adults. In first aid 32 classes were taught during the year with 33 instructors being trained. A total of 405 standard first aid certificates were granted during 1949 as were 26 junior certificates.

Other Activities Extensive

Similar progress was made in other activities sponsored by the chapter. Fortunately, the disaster service facilities have not been required, but they have been revised in order to meet the needs of the community. The Amateur Radio Relay League has made its services available to the chapter and the Civil Air Patrol has done likewise. The Gray Lady Corps now has 24 members who served 1,971 hours in the Oak Ridge Hospital last year to contribute to the comfort and welfare of the patients. The Production Corps served 1,285 hours in making articles for hospitalized veterans.

Children in Oak Ridge schools were enrolled 100 per cent in the Junior Red Cross and carried out an extensive program, one feature of which was sending gift boxes to children overseas. The Home Service program of the chapter also was wide-spread, covering assistance and service to veterans, member of their families and members of the armed forces. It is one of the major functions of the chapter and during 1949 a total of 1,802 cases were handled.

Y-12 GIRLS TEAMS TOPS IN PIN MEET

Dr. Normand To Lead Seminar Discussion

Dr. C. E. Normand of the Stable Isotopes Division of Y-12 will lead the Oak Ridge Physics Seminar Friday, March 3, with a discussion of the subject, "Vacuum System Design Problems." This meeting is to be held in the Oak Ridge Recreation Hall at 4 o'clock.

Dr. Normand will discuss the fundamental considerations which determine the selection of the most efficient vacuum system for a given problem. A consideration of the basic physical principles as applied to the motion of gases at high or low pressure is necessary in choosing vacuum apparatus for optimum pumping results. In his talk Dr. Normand will principally discuss kinetic or dynamic systems as contrasted with the static system where pumping equipment is temporarily or permanently sealed off from the region of high vacuum. Came to Y-12 in 1943

Dr. Normand spent his student days at the University of Texas and culminated his studies at the University of California where he received his doctoral degree in physics in 1930. After 12 years in the academic field he returned to the Radiation Laboratory at Berkeley in 1942 where he headed the vacuum group developing and testing large-scale equipment and production techniques involved in what turned out to be our present "electromagnetic separation process." In 1943 he came to Oak Ridge to advise in the installation and testing of the plant vacuum systems in Y-12, where he was head of the vacuum group of the Process Improvement Division until 1946. Dr. Normand is now carrying out fundamental research on materials and methods used in the vacuum field and is also a staff member of the Research and Development Division.

Papers To Be Given By Y-12ers At American Physical Society

A group of Y-12ers will present a paper at the general meeting of the American Physical Society to be held in Oak Ridge March 16, 17 and 18, with the session expected to be one of the largest scientific gatherings ever held in this section of the country. The meetings will be held in the Center Theater and the East Lounge of the Ridge Recreation Hall.

H. W. Morgan will present the paper prepared by the Y-12 group, co-authors being A. L. Southern, G. E. Keilholtz and William V. Smith. The subject of the paper will be "The Isotopic Analysis of Nitrogen by Means of a Microwave Mass Spectrograph." All of the authors are in the Y-12 Isotope Research and Production Department. Solid State Physics Main Topic

The main theme for discussion for the American Physical Society meeting will be solid state physics. Among the internationally known speakers who will appear on the program will be such distinguished physicists as Lark-Horowitz, Schockley, Smoluchowski, Zener, Seitz, von Hippel, Slater and Bloembergen.

In addition to the regular program a smoker and banquet have been planned for the visitors.

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Drivers Are Urged To Observe Speed Limit In Y-12 Plant

All Y-12ers driving motor vehicles within the plant area are cautioned not to violate the 25 miles-per-hour speed limit prescribed for the area. In some sections even slower speed is required to protect pedestrians and where traffic becomes congested.

Observance of the speed limit is urgently requested for the protection of motorists and pedestrians alike. Many traffic accidents that have resulted from excessive speed that took away control of a vehicle from its driver could have been prevented if full caution was exercised at all times.

Cast Offs, Woes Take Carbide Event Titles

Women's bowling teams from Y-12 ran one-two in the feminine division of the Carbide bowling tournament last week end at the Jefferson Alleys with the Cast Offs, a pick up team, and the Woes, of the W League in plant circles, coping top handicap honors. A Y-12 women's doubles team composed of Olyne Poindexter and Margaret O'Neal took second place in scratch scoring and Olyne Poindexter was third in handicap all events. All of the women's events were completed.

Cast Offs Top Scorers

The Cast Offs took both handicap and scratch team scoring honors but under tournament rules could not be awarded both trophies so the Woes, second place team in handicap scoring, took the top handicap trophies. The Cast Offs rolled a 2,113 scratch score, boosted to 2,824 for handicap. The Woes posted a 2,797 handicap score.

The Cast Offs team was composed of Margaret O'Neal, Olyne Poindexter, Mozelle Kennedy, Ruth

(Continued on Page 3)

ACS Section Resumes 'Headlines In Chemistry' Radio Program; Y-12ers Will Aid In Project

The East Tennessee Section of the American Chemical Society resumed its radio programs, "Headlines In Chemistry," last Sunday night over Oak Ridge Station WATO and will present similar programs at 9:15 o'clock every Sunday night for an indefinite period.

The programs consist of a 10-minute news outline of developments in science and chemistry, discussed in a non-technical manner understandable and interesting to a layman. This is followed by a

five minute period of questions and answers. Members of the ACS publicity and radio committee plan to call on employees of Y-12 and all other groups in Oak Ridge to provide personnel to carry out the programs.

For the program of Sunday night, March 5, the news discussion will concern Orlon, a new synthetic fabric; how America may grow its own quinine and development of gasoline 30 per cent more powerful than now is available. In the question period Theodore Bartlett,

former Y-12er now at K-25, will be questioned on Chemistry and Photography.

On the opening broadcast last Sunday, Dr. Harvey Bernhardt, of K-25 and chairman of the East Tennessee Section of the ACS, was featured on the program.

Plans are being made to have the ACS broadcasts originating here to be repeated over radio stations at Knoxville and other East Tennessee towns.

SAFETY SCOREBOARD

Your Plant Has

Operated

252 DAYS

Without A Lost Time

Accident

THROUGH FEB. 26

Y-12 Bulletin

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Only One Department Repeats In Attendance

Only one department in Y-12, the Laundry Department in the Minor League, retained its position in the attendance standings for the week ending February 19 from the previous week. A general upheaval that brought departments from lower standings into the top three ranking positions also saw the plant-wide absentee record lowered .3 percent for the week ending February 19 from the preceding reporting period, bringing the figures to 3.2 percent.

Four Departments "All Present"

Four departments reported all employees present for the week ending February 19, all of them being in the Minor League. In addition to the Laundry, those with perfect attendance records were Maintenance Utilities, Janitors and Steam Plant. The latter three departments advanced from fifth, sixth and ninth places held the previous week.

The Uranium Control and Computing Department, in third place for the week ending February 12, advanced one notch to second and reported an absentee mark of .7 per cent. Cafeteria and Canteens, one of the departments with a perfect attendance record for the week ending February 12, dropped back to third place the following week with an absentee mark of .87 per cent.

Electricians Return to Top

In the Major League the Electrical Maintenance Department, which has spent more time in first place than out for the past several weeks, returned to the lead for the week ending February 19 after being out of the top three for one week. The department reported 1.2 per cent of its personnel absent for the most recent reporting period and advanced from fourth place. The department was in first place the week ending February 5.

The Chemical Department advanced from sixth place to second in the Major League and had 1.6 percent of its personnel absent. Product Chemical retained third place and reported an absentee record of 1.9 per cent.

The plant-wide absentee record for the week ending February 19, by departments, follows:

| MAJOR LEAGUE | | | |
|----------------------------------|-------------------|---------|---------|
| More than 50 Employees Scheduled | | | |
| Dept. | Percentage Absent | 2-19-50 | 2-12-50 |
| 2077 | 1.2 | 1 | 4 |
| 2619 | 1.6 | 2 | 6 |
| 2616 | 1.9 | 3 | 3 |
| 2282 | 2.3 | 4 | 5 |
| 2283 | 2.5 | 5 | 1 |
| 2091 | 2.79 | 6 | 2 |
| 2015 | 2.84 | 7 | 8 |
| 2320 | 3.4 | 8 | 13 |
| 2142 | 3.6 | 9 | 10 |
| 2360 | 4.8 | 10 | 12 |
| 2003 | 4.98 | 11 | 9 |
| 2014 | 5.00 | 12 | 11 |
| 2300 | 5.5 | 13 | 7 |

Group absentee percentage was 3.1 per cent, one per cent lower than the preceding week.

| MINOR LEAGUE | | | |
|---------------------------|-------------------|---------|---------|
| 15-49 Employees Scheduled | | | |
| Dept. | Percentage Absent | 2-19-50 | 2-12-50 |
| 2096 | 0.0 | 1 | 1 |
| 2005 | 0.0 | 1 | 5 |
| 2001 | 0.0 | 1 | 6 |
| 2743 | 0.0 | 1 | 9 |
| 2739 | 0.7 | 2 | 3 |
| 2107 | 0.87 | 3 | 1 |
| 2140 | 0.94 | 4 | 4 |
| 2270 | 1.0 | 5 | 1 |
| 2200 | 1.8 | 6 | 1 |
| 2143 | 6.25 | 7 | 1 |
| 2060 | 6.25 | 7 | 2 |
| 2008 | 6.6 | 8 | 1 |
| 2133 | 6.66 | 9 | 1 |
| 2109 | 6.66 | 9 | 7 |
| 2009 | 6.66 | 9 | 8 |
| 2002 | 7.4 | 10 | 1 |
| 2090 | 13.3 | 11 | 10 |

The plant average for the week ending February 19 was 3.2 per cent, .3 per cent lower than the preceding week.

Deductions Are Deceiving - - -

Y-12ers Get Full Value Of Pay Checks - And More - Considering Benefits Received From Company Services And Federal Taxes

Subtract five from twenty, and what is left? Fifteen? That answer is both right and wrong, depending on the method of approach. If you mean that five oranges from twenty oranges leave fifteen oranges, then you're right. But if you're talking about pay check deductions, then you're wrong.

Y-12 employees may have a smaller pay check after the deductions are made, but in this case appearances are deceiving. The full value of your pay check is still there—in fact there is more than the full value.

Defense, Democracy Bought

Take the Federal Income Tax deduction for example. Defense of the nation and democracy are being bought with this deduction, and democracy is a scarce product today. You buy government, too. Tax payments help the federal government to make and carry out laws designed to protect the freedom of all citizens.

The next deduction—one and one-half per cent for the Federal Old Age Security Tax—buys more, too. With this deduction, and the one and one-half per cent added by the Company, Y-12 folks are buying security in their old age.

Other Deductions Voluntary

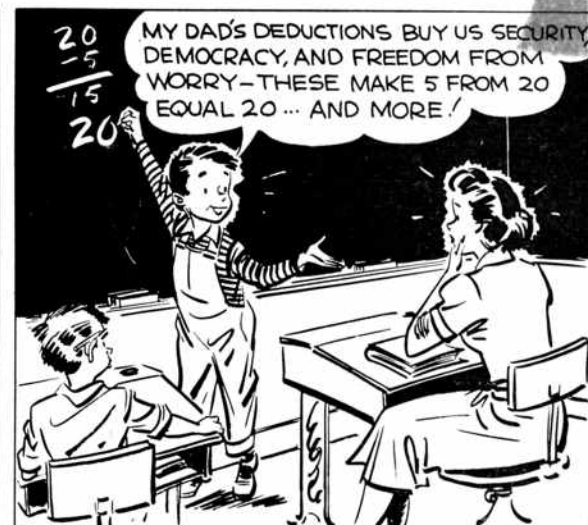
Both of these deductions are required by law. The Company is acting as an agent for the government of the voluntary deductions. Both the employee and the Company pay part of the expense for this insurance, so the cost isn't so great.



Freedom from worry is what is

Saving is also possible under a voluntary deduction plan. Saving is easier this way because the Company does the banking for you. Y-12ers can save more, because the Company adds to their money—the exact amount added depending upon how long they have been ment when it makes these deductions. Then there also are other kinds of deductions, and you give the Company the authority to take them out of the pay checks. These are the voluntary deductions, and here especially Y-12ers get more for their money.

Carbide Group Insurance is one



being bought here. This plan gives your family extra money in case you die suddenly. It also provides payments for employees in case of injuries on the job or away from the job that requires absence away from work for more than a few days.

Hospitalization Available

Hospitalization is another voluntary deduction for Y-12ers. Here hospital bills can be paid the easiest possible way—little by little in advance. If you do have to go to the hospital, you won't have to worry about how you are going to pay hospital bills.

with the Company. When the plan

ends, after two years, participants in the Carbide Savings Plan get back the deductions from pay checks, plus the money added by the Company, plus the bank interest. The "plus" means more for your money.

These deductions do shrink pay checks. They mean a closer budget. But Y-12ers are buying tremendous things with them—security, democracy, and freedom from worry. These purchases are invisible take home pay. They make five from twenty equal twenty—and more.

Changes In Address Notification Urged

With a considerable number of Y-12 families recently moving to new housing locations, or planning such moves, it is urged that all changes in address at once be reported to the immediate supervisor of the employee making the move. This notification is necessary to keep the plant records up to date, including the important mailing list for all employees that includes the proper addresses for employees receiving The Y-12 Bulletin.

The change in address cards now being used in Y-12 are the yellow Form 997, which provides space for all pertinent information. After filling out the form, the employee submits it to supervision, which in turn sends the card to the Wage Standards Department. From Wage Standards the necessary information is transmitted to the Mail Room where addressograph plates are kept up to date from the information given by the employee.

Prompt attention to filling out the change of address cards and sending them through channels to Wage Standards will assure that all employees will receive all Company mail without delay and less will be returned because of faulty addresses.

It is stressed that information on changes of address cannot be handled at the office of The Y-12 Bulletin.



The following Y-12 employees were patients at the Oak Ridge Hospital last week: H. L. Dickenson, Guard Department; Thelma O. Poindexter, Manufacturing Offices; Helen D. Hackworth, Analytical Laboratory; Dell C. Walker, Product Chemical; Howard J. Finger, Field Maintenance; Charles F. Holloway, Plant Engineering; Daisy Whitehead, Medical.

"I wish you wouldn't call me 'Big Bill.'"
"Why not?"
"Those college names stick—and I am going to be a doctor."



The Electromagnetic Research Laboratory reports Harry Cupp has returned from a one-week vacation at Daytona Beach, and, of course, he attended his No. 1 sport, the motorcycle races. To the riders of the two-wheeled roaring monsters the Daytona Beach event is their Kentucky Derby.

W. T. McNamara is up and at 'em again after a recent illness and his fellow folks in Planning and Estimating have extended a warm welcome.

Evelyn (call me Fiz) Tucker, of the Cafeteria, took time out from bowling and skating recently to spend a week end in Prattville, Ala.

John Geasland, of Stores, spent a happy February 24 by helping his parents observe their golden wedding anniversary at Harriman.

W. G. Vann is spending a few days of his vacation visiting a brother in Dayton, Ohio, and the rest of the time at home out Clinton way.

Manufacturing Offices welcomed O. C. Hartman back to work last week after he had been away for a few days because of illness.

The Uranium Control and Computing Department regrets losing Kay Guthrie, who has gone back to North Carolina in pursuit of higher learning. She plans to enter the University of North Carolina next fall. She was one of the many fine correspondents on The Y-12 Bulletin staff and the column extends her the best of wishes.

'Tis said the Lions Club minstrel, opening tonight at the high school, is a real whing-ding, so if you Y-12ers who haven't bought tickets yet (and that's the only way you will get them) better hail a Lion today and get a ducat. Chris Keim, boss man of Y-12's isotope business and also head Lion, has a scream of a skit, espionage agents report, while a real show stopper is said to be a number by a chorus of Lionesses who warble "You Gotta See You're Mama Ever-y Night, Or You Can't See Mama A-tall." Threat or promise?

Looks like the Transportation Department is being extensively bitten by the flu bug. . . . A. F. Kendig is back at work after an attack but now his right hand man, W. T. Bradshaw, is ailing from the same malady. . . . Mrs. Lula Jus-

tice was still out last week from the same complaint.

Manufacturing Offices returns to report that Roy Hale, star softball catcher on Y-12 teams, began spring training by resting up at home during a one-week vacation.

Assay Laboratory hopes Jim Parham will remove himself from the sick list soon.

Virginia Bowers, of the Chemical Research Department and one of Y-12's most popular gals and a star basketball player, vacationed at Baltimore and she had some interesting news to impart on her return. . . . The department is congratulating Raymond Buxton, who was married to Miss Marjorie Jackson February 17 at the parsonage of the First Baptist Church in Knoxville. The bride's home is in Oliver Springs and the couple will live in Wartburg.

Betty Jo Sherman was extended a warm welcome by the Analytical Laboratory on returning to work following an illness.

James R. Whitcomb, of Employee Relations who capably handles housing, insurance and other items for Y-12ers, and his folks spent a recent week end in the Smokies.

Planning and Estimating is joined by the many other friends of Helen Sisson in Y-12 in extending sympathy over the death of her mother February 22 in Williamsburg, Ky.

Field Maintenance extends get well wishes to H. J. Finger, who is ill in the Oak Ridge Hospital. . . . V. L. Peppers spent his vacation profitably by working on the new house he is building near Oliver Springs.

Bob Kelley, of Isotope Research and Production, is receiving best wishes from the department for a quick recovery from his illness. . . . Stanley Fulkerson (Man With The Green Thumb) is sporting a new station wagon. . . . R. R. Roseberry is spending his vacation around home catching up on his tuba tooting and harmonizing with the other musically inclined members of the family.

Spilling salt might be bad luck, but spilling the beans is much more dangerous.

In the long run short cuts are the longest ways to get there.

Papers To Be Given By Y-12ers At Meet

(Continued from Page 1)

The smoker, to be sponsored by Carbide, will be held from 8:30 p.m. to 11:30 p.m., March 16, in the East Lounge of the Ridge Recreation Hall. The banquet, given under auspices of the society, will be held at 6 p.m., March 17, at the Oak Terrace. Dr. Alvin M. Weinberg, Research Director of the Oak Ridge National Laboratory; and Dr. P. P. Ewald will deliver after-dinner talks at this function.

Y-12ers wanting to attend the banquet may obtain tickets from L. E. Burkhart, Bldg. 9734, telephone 7298.

Chorus Rehearsal Planned Over Air

The Oak Ridge Community Chorus will be heard over Radio Station WATO at 2 o'clock Sunday afternoon, March 5, in a rehearsal of the program to be given by the group in a concert April 1. John H. Krueger will direct the chorus in "Faure-Requiem" and Ted Lehman, of the station staff, will be narrator. Several Y-12ers are members of the choral group.

Ike Says U. S. Can't Hide From H-Bomb

Gen. Dwight D. Eisenhower is quoted by the Associated Press as telling a group of construction engineers in an address at New York's Waldorf Astoria Hotel that Americans cannot protect themselves against the H-bomb by "sticking our heads in the sand." General Eisenhower, now president of Columbia University, maintained that there is no defense against ignorance and that every appliance found by scientists has been capable of either evil or good use.



Hugh C. Nichols, of Y-12, and Mrs. Nichols, became parents of a baby boy born at the Oak Ridge Hospital February 18.



6-1160
WELL UP IN THE STANDINGS OF THE B LEAGUE OF plant bowlers throughout the season have been the All Stars, pictured above. From left are Bill Burns, Paul Petretsky, Bruce Whitaker, Roy Williams and Chester Fultz. The All Stars also were competitors in the Carbide Company-wide tournament.

Y-12 Photos By Vince Moore

Rippers, All Stars Tied For B Loop Top

The Rippers and All Stars surged to a tie for first place in the B League of plant bowlers last Thursday night at the Oak Terrace with three point wins over the Cubs and Tigers, respectively. However, the Mules romped away with team scoring honors and E. B. Galloway, of the Bumpers, monopolized individual feats in top tallying.

Mules Kick Comets For Three
Riding their scoring splurge to the best advantage, the Mules took three from the Comets and Galloway's pinmanship helped the Bumpers bump One-91 for the same number of points. Meanwhile, the Maintenance keglers banged out the only whitewash victory of the night by taking four from the Head Pins. The Wolves rounded out the night's activities by nipping the Bums for three.

The Mules had third round high scores in their scratch game of 855 and handicap game of 1,042. Their 2,399 scratch series and 2,864 handicap series also was tops for the session.

Galloway On Scoring Spree

Three of Galloway's scores were high for the third round. They were a 222 scratch single game, 253 handicap single game and 541 scratch series. He went on to score a 634 handicap series.

League standing follows:

| Team | W | L | Team | W | L |
|-------------|---|---|-----------|---|---|
| Rippers | 6 | 2 | Cubs | 4 | 4 |
| All Stars | 6 | 2 | Wolves | 4 | 4 |
| Bums | 5 | 3 | Mules | 3 | 5 |
| Tigers | 5 | 3 | Comets | 3 | 5 |
| Bumpers | 5 | 3 | Head Pins | 1 | 7 |
| Maintenance | 5 | 3 | One-91 | 1 | 7 |

Samuels Pinmen Whitewash Y-12ers In City Loop Clash

The Y-12 men's varsity bowling team came to a cropper February 20 when they ran up against unusually strong opposition from the Samuels pinmen and dropped four points to the Clothiers. Game scores were 884, 939, 983—2,806 for Samuels and 877, 836, 883—2,596 for Y-12.

Frank Gragg paced the Y-12ers in individual scoring with 189, 173, 198—560; followed by Ernie Cobble with 180, 179, 191—550; Nelson Tibbatts 168, 167, 190—525; Conrad Roberts 169, 162, 180—511; and Rudy Pletz 171, 155, 124—450.

Y-12 Riflemen Lose Match To ORNL

The Y-12 rifle team was again nosed out by a close score in its second match of the season when ORNL sharpshooters turned in a 1,453 to 1,448 victory last Friday night at the Oak Ridge Sportsmen's Association range. Patterson, of Y-12, led the entire field with a 292 handicap score and 259 scratch out of a possible 300. Other Y-12 handicap scores were Gammon 290, Wilson 289, Bell 289 and Oliphant 288. The Y-12 riflemen will not fire this week but will meet K-25 next week.

Y-12 Girls' Bowling Teams Tops In Carbide Pin Tournament As Cast Offs And Woes Finish One-Two In Handicap Scoring

Y-12 Keglers Do Well In City Meet; Ratjen Second In Singles

Y-12 bowlers did right well for themselves in the Oak Ridge city-wide tournament recently held at the Oak Terrace alleys.

In singles play Harold Ratjen came within just a few pins of walking away with top honors in the event, finally winding up in second place with a fine handicap series score of 651. His 262 was the top handicap single game of the tournament.

Bill Burns finished in a tie for fifth place by posting a 644 score while Conrad Roberts was seventh with 642 and Frank Thurman 13th with 628.

Burns ran up a total pinnage of 1,889 to take third place in the all events.

As previously mentioned, the All Stars, a Y-12 team in the B League of plant pinmen, finished eighth in team play with a handicap series score of 2,918.

The Oak Ridge tournament drew 103 singles entries, 59 doubles combinations and 37 teams.

Prizes for tournament winners will be awarded at the annual meeting of the Oak Ridge Bowling Association to be held at 8 o'clock Friday night, March 10, in the Starlight Room of the Oak Terrace. All city bowlers are urged to attend the meeting as officers for the coming year will be elected and refreshments will be served free.

(Continued From Page 1)

Law and Hazei Thurman. Rolling for the Woes were Matlock, Mason, Phillips, Moody and Tiller.

Second place in the women's handicap team play was the Be Boops, of K-25, with 2,768. The Whitewashers, of Oak Ridge National Laboratory, fired 2,081 for second place in team scratch scoring.

K-25 Teams Take Doubles

In women's doubles, handicap, first place went to Boyd and Achley, of K-25, with Dyer and Elliott, also of K-25, in second place. Gilliland and Taylor, of K-25, had the best doubles scratch score, followed by Poindexter and O'Neal.

K-25's Anfinson won the women's scratch singles with Bowelle, of ORNL, second. ORNL keglers took both places in scratch singles with Fields and Gaither pacing the field. In all events, handicap, Anfinson, Bowelle and Poindexter finished in that order while in scratch all events scores Gilliland and Gaither were tops.

The other Y-12 women's teams all were in the money. The Controllers had a 1,993 scratch score and were seventh in handicap scoring while the Pick Ups placed fourth in handicap scoring.

Men's Teams Not Finished

The men's team bowling was not completed over the week end but with available results the Head Pins, of the B League, were fifth among those reporting handicap scores with 2,917. In order, the top four teams were C Shift Process, Sterlings, and Barrier Research, all of K-25; and Health Physics, of ORNL. All Y-12 teams had rolled with the exception of the Corks.

Other Y-12 team handicap scores were Maintenance 2,826, Angstroms 2,804, Mules 2,780, Old Men 2,771, Comets 2,770, All Stars 2,758, Wolves 2,756, Moles 2,750, Bumpers 2,747, Rippers 2,731, Bums 2,726, Misfits 2,714, Tigers 2,671, Materializers 2,621.

Riddle Leads Orphans To Lead In C League

The Orphans whittled the insulation off the Short Circuits' wires last week in C League alley activities at the Central pin emporium and sparked off with four big points to grab a thin but undisputed lead in the loop as the Guards, previously tied for top place, could only take three from the pestiferous Hooks.

Hornets, Thin Pins Win

The Hornets stung the Hurricanes for a three-point victory while the Thin Pins dug up three points from the Moles in other league clashes.

George Riddle, rolling for the Orphans, did some fancy bowling to take all individual scoring honors. Building from a neat 212 scratch single game he turned in a 247 handicap game, 533 scratch series and 638 handicap series. The scratch series score was the best for the second round of play.

Orphans, Guards Share Honors

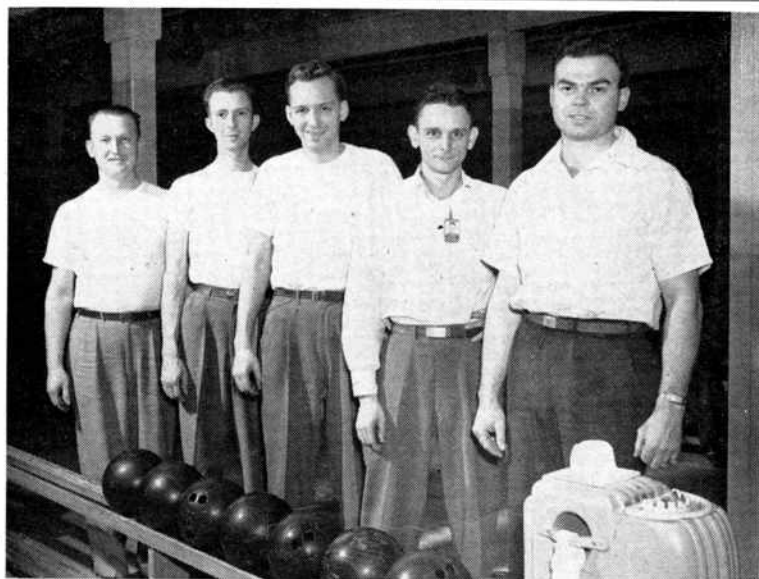
The Orphans and Guards shared team scoring honors. The Orphans had the best scratch single game of 790 and scratch series of 2,337. However, the Guards posted a 1,021 handicap single game and 2,893 handicap series for tops in those categories.

League standing follows:

| Team | W | L | Team | W | L |
|---------|----|----|----------------|----|----|
| Orphans | 23 | 9 | Thin Pins | 15 | 17 |
| Guards | 22 | 10 | Moles | 12 | 20 |
| Hooks | 19 | 13 | Hurricanes | 11 | 21 |
| Hornets | 16 | 16 | Short Circuits | 10 | 22 |

SILAGE MAKERS PATENTED

The National Patent Council has reported that two newly designed machines, both by the same inventor, have been patented. One is designed to prepare hay and the other corn for feed and silage. The machines gather the hay or cornstalks right out of the field, cut them into suitable lengths and deliver the chopped material into a following truck.



6-1140
AS STUBBORN AS THEIR NAMESAKES ARE THE MULES bowling team of the B League who have been strong competitors for the entire season and who were entered in the Carbide Company-wide tournament. Pictured above from left are E. E. Kennedy, T. R. Webber, Johnny Gordon, Russell Allstun and H. McLeMore.

Y-12 Photos By Vince Moore

SPORTS NEWS

Robins Enter Knoxville Tourney; Y-12 Cagers Lose Closing Tilts

The Y-12 Robins, one of the better feminine basketball aggregations in Oak Ridge, will enter the Southern Appalachian basketball tournament scheduled to start March 8 in the Chilhowee Park arena in Knoxville. In this event they will be pitted against some of the best teams of this section of the state and if the Y-12 lassies display the brand of ball of which they are capable they could create quite a ripple in the tournament.

Cards Call It A Season

Meanwhile, the Y-12 Cardinals, pestered by injuries and unavoidable absences of key players from time to time, have called it a season and sent their uniforms to the cleaners.

The Cards and Robins both closed out their Oak Ridge City League schedule in rather dismal style by losing their last tilts. The Cards reached a 36-point ceiling in two games but Oak Ridge National Laboratory cagers topped them with 40 in one contest and Southern Bell tallied 41 in another. The Robins had one of their roughest nights of the year against the ORNL Filies by failing to score in both the second and third periods of the clash and dropping a 25 to 13 decision.

Robins Beat Knoxville Team

However, the feminine basketballers came back to gain revenge on a Knoxville Y.W.C.A. sextet last Thursday night at Chilhowee Park with a 33 to 12 victory, leading all the way and paced by Donaldson with 17 points and Helen Brown with 10. The Knoxville women had defeated the Robins earlier in the season at Oak Ridge.

In their last contest of the season, the Cards gained revenge over the Dixie Aces, of Chattanooga,

Women's Varsity Bowling Team Takes Three From R-A Lassies

Bowling in much improved form, the Y-12 women's varsity bowling team took three points from the Roane-Anderson keglers last Thursday night. Continuance of the brand of play demonstrated in their last two outings could result in an advance in the standings for the Y-12 lassies.

The Y-12ers romped to a 709 to 584 win in the first engagement, took a 669 to 634 decision in the second and coasted to a 686 to 613 victory in the finale. Series scores were 2,064 for Y-12 and 1,831 for Roane-Anderson.

Oradean Upchurch burned up the alleys for a fine 448 to lead the victors with games of 147, 130 and 171. Next in line were Margaret O'Neal 156, 140, 130—426; Betty Whitehorn 135, 157, 120—412; Daisy Ward 132, 132, 125—389; and Ruth Law 139, 110, 133—382.

by whipping the shoe shine boys by 51 to 48 Saturday night at Jefferson. The Aces had beaten the Cards previously at Chattanooga.

Termites, Angstroms Close On Materializers

The Termites and Angstroms closed the gap in D League of plant bowlers last week as each of these keglers outfits took three points from their opponents of the night. The victory of the Angstroms was particularly impressive, their victims being the high-flying Materializers who up to that time had only dropped one point during the entire third period of play in the loop. The Materializers had a three point lead over the Termites, who in turn were two points ahead of the Angstroms at the completion of play February 21.

Termites Take Team Honors

The Termites swept all scoring honors for the night in taking their victory from the Overheads. Their 1,029 handicap single game was tops for the third round and other tallies were 874 for scratch single game, 2,371 scratch series and 2,836 handicap series. Wes Savage led the Termites with a 519 scratch series and Ernie Cobble contributed a 209 scratch game, both scores being tops for the night. Elmore Koons paced the Overheads with a 483 scratch series and Leo Hemphill posted a 600 handicap series.

Ed Spitzer was the most potent pinman for the Angstroms, getting a 612 handicap series for best of the night, and was well supported by Griffin, Burkhardt and Twitchell. John Ramsey and Carl Frazier contributed some good games for the Materializers to help the team avoid a whitewash.

Schmitt, Burns Score Well

John Schmitt led the Old Men to a three-point win over the Strikers, getting a 458 scratch series. Bill Burns had the best scoring for the Strikers with a 485 scratch series.

The Splinters, with George Mitchel and Bill Morgan leading the way, took three points from the Isotopes. However, Paul Dunn, of the Isotopes, took individual scoring honors with a 233 handicap single game for the night, boosted from a 197 scratch game. He also posted a 183 scratch game to keep his team from being routed.

League standing follows:

| Team | W | L | Team | W | L |
|---------------|----|----|-----------|----|----|
| Materializers | 20 | 4 | Strikers | 10 | 14 |
| Termites | 17 | 7 | Overheads | 9 | 15 |
| Angstroms | 15 | 9 | Splinters | 9 | 15 |
| Old Men | 11 | 13 | Isotopes | 5 | 19 |

Sportsmen Sponsor Fish Tags Return

Evan Means, of the Y-12 Electrical Maintenance Department and member of the Oak Ridge Sportsmen's Association, has announced that the group is sponsoring return of fish tags to the TVA Fisheries at Norris. Any fisherman catching a tagged fish may be eligible for prizes ranging from \$1 to \$20 if the tags are returned to D. E. Manges, TVA, at Norris. The fish tagging program is aimed at tracing the migratory movement of fish.

**CARBIDE AND CARBON
CHEMICALS DIVISION,
Union Carbide And Carbon Corporation**
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Revised Rules, Contest Schedule Are Announced By Camera Club

A slightly revised and relaxed set of rules for competition in the monthly contests held by the Carbide Camera Club and a complete schedule through next January have been announced by S. A. Hluchan, of the Oak Ridge National Laboratory, vice president of the club; and Nat Stetson, of Y-12, president of the organization and who is a Y-12er.

A news letter containing the complete schedule and rules has been sent to all members of the club, Stetson said.

Smaller Prints Can Enter

One of the most important changes in rules permits black and white photographic prints of any size up to a maximum of 16 by 20 inches with no minimum size to be entered in the monthly contests. In the past prints had to be at least eight by 10 inches in size so the new regulation will allow smaller pictures to be placed in competition. Prints still must be mounted on 16 by 20 inch vertical mounts.

Another change is noted in the age of negatives to be used for the black and white prints and also in the color slide contests. The new rules provide that the negative must be less than two years old, as against one year in the old rules. However, no print or slide may be entered in any contest that has previously been entered in any club competition or won prizes in other contests.

Here are the revised competition rules in full:

Black and White Prints

1. Maximum size of 16 by 20 inches, no minimum.
2. Mounted on 16 by 20 inch vertical mounts.
3. Negative age of less than two years.
4. The print must not have been entered in any previous Carbide Camera Club competition or won prizes in other competitions.
5. Entries limited to three per person.
6. All prints to be monochromes.
7. Entries should be titled and the following data labeled on the back (a) camera used (b) exposure (c) lighting (d) film and developer (e) paper and developer (f) toner, if any.

Color Slides

1. Slides acceptable in either two by two inches, 2 1/4 by 2 1/4 inches or 3 1/4 by four inches.
2. Transparency age of less than two years.
3. Entries limited to four per person.
4. The following data should accompany each entry (a) camera used (b) exposure (c) kind of film (d) lighting.

Complete Schedule Announced

Acting on suggestions from members following a poll, the following schedule has been announced for the club through next January.

March 14—Black and white prints, sunrises or sunsets.

April 11—Black and white prints, animals.

May 9—Black and white prints, portraits.

June 13—Color slides, spring landscapes.

July 11—Color slides, flowers.

August 8—Open.

September 12—Open salon, black and white prints and color slides.

October 10—Black and white prints, water scenes.

November 14—Color slides, architecture.

December 12—Color slides, fall landscapes.

January 9—Black and white prints, children.

No worker is required to take a chance.

Carbide Offers New Staple Fiber, Dynel

Dynel, the generic name chosen for its new staple fiber, was introduced recently by Carbide and Carbon Chemical Division, Union Carbide and Carbon Corporation.

Dynel is expected to become a fiber of major importance. Among its many advantages are high resilience, "loft," warmth, strength, fire resistance, moth-proofness and fungus inertness. In addition the fiber possesses dimensional stability and dries rapidly. It can be dyed readily on conventional machinery and is expected to sell at a moderate price. Dynel can be handled easily on the cotton, wool, and spun silk systems.

Dynel Will Resist Fire

Fabrics made of Dynel will not support combustion. They will char, but when the source of ignition is removed, there is no further burning. Clothes moths and carpet beetles starve to death rather than attack Dynel fibers. The complete moth-proofness of Dynel is a special interest for clothing, blankets, and floor coverings.

Dynel is light in weight, launders and dry cleans without shrinking. Dynel fibers do not absorb water; only the surface is wet. This means that Dynel fabrics will dry rapidly. Dynel fabrics can be laundered in high concentration of detergents and soaps without deterioration. Although fabrics made from this material can be steam-pressed without losing any of their good qualities, they should not be ironed.

Not Yet On Market

At present, Dynel is available only in development quantities. However, Carbide has started to provide for a substantial increase in production capacity at the South Charleston, W. Va., plant. These commercial facilities are expected to be in operation sometime in the second quarter of 1950, at which time the availability of Dynel is expected to be greatly increased and products of this material will be on the market.

Income Tax Deadline March 15; Filing Aid Still Available

Any Y-12ers who have not filed their income tax returns for 1949 are reminded that these returns must be mailed to the Collector of Revenue, Nashville, Tenn., before midnight of March 15.

Assistance in filling out the returns still may be obtained by Y-12ers desiring the aid by applying to Paschal Hamrick, of the Employment Department. He will be available from 8 a. m. to 4:30 p. m., Mondays through Fridays, at his office, Room 10, North Portal.

Man and wife were bitterly discussing extravagance.

"I'm extravagant?" he screamed, "When did I ever make a useless purchase?"

"When," replied the missus, "you bought that fire extinguisher three years ago. We haven't used it yet."

Woes, Hi Balls Still Deadlocked In W League

The Woes and Hi Balls keglerettes in the W League maintained their first place tie in the loop after alley activities last Wednesday night at Jefferson. For the eighth straight week the Woes took two out of three games, the Controllers being victimized this time; while the Hi Balls proved potent medicine for the Rattlers by scoring a similar victory.

League Standings Snarled

The entire league standing became snarled again with a three-point win by the Kemps over the Pick Ups bringing them to a tie with the Controllers for second place. Then the loss by the Pick Ups tumbled them to a third-place tie with the Dodgers, who dumped the Spinners for three.

The Kemps romped off with all team scoring honors, posting a 711 scratch single game, boosted to 991 with handicap and a 2,024 scratch series increased to 2,864 with handicap.

Individual Scoring Split

Individual scoring was split four ways. Doris Moore, of the Dodgers, had a 166 scratch single game. R. Green, of the Rattlers, had a 223 handicap game. Oradean Upchurch, rolling for the Controllers, posted a 436 scratch series and Mabel Moody, of the Woes, rolled a 591 handicap series.

League standing follows:

| Team | W | L | Team | W | L |
|-------------|----|----|----------|----|----|
| Woes | 16 | 8 | Pick Ups | 12 | 12 |
| Hi Balls | 16 | 8 | Dodgers | 12 | 12 |
| Controllers | 14 | 10 | Rattlers | 9 | 15 |
| Kemps | 14 | 10 | Spinners | 3 | 21 |

Y-12 Varsity Keglerettes Entered In State Tourney

Inspired by a recent winning streak and improved all around play, the Y-12 women's varsity bowling team has entered the Tennessee state tournament at Nashville this coming Saturday and Sunday, March 4 and 5. The event is held under auspices of the Women's International Bowling Congress.

The state tournament is conducted on a handicap basis and if the Y-12 lassies can roll "hot" games consistently, they have a good chance to end among the leaders. Team play will be staged March 4 with singles and doubles March 5.

Return Of Award Selection Cards By Friday Is Urged

Any Y-12 employee who has not returned the safety award selection card to supervision, correctly designating the desired award and properly signing the card with name, department and badge number, is urged to do so by Friday of this week. It is necessary to establish this deadline so that orders for the award articles may be submitted.

Practically all eligible employees have returned the cards, but it is taken into consideration that vacations and sickness may have prevented some from doing so.

Swedes Making Atomic Progress

The Toronto Star has reported that Sweden is making strides in atomic energy production. The paper quotes Giesta Funke, secretary of the Swedish atomic committee, as saying that the nation is planning an atomic pile and that his country can make atomic bombs. The secretary further is reported as saying Sweden has the raw products, power and industries and that Swedish scientists know atomic secrets. The Star also quotes other Swedish scientists as expressing the view that production of atomic bombs by the nation is only a question of time and money.

When discussing or dictating classified information, avoid raising your voice.



GOLF BALL MARKER AVAILABLE FOR Y-12ERS AT RECREATION OFFICE

Y-12 golfers who want to add that personal touch to the little white pellets they bang around and also to definitely identify ownership of said pellets now may obtain that service—free for nothing—at the Y-12 Recreation Office. The Recreation Office has acquired, for convenience of all plant golfers, a marker that will inscribe the name of the owners in color on their golf balls. All that the pasture pool enthusiast has to do to take advantage of this service is to bring their golf balls to the Recreation Office, North Portal, and use the gadget. Full instruction will be provided on how to operate the gadget—but the beneficiary of the service must do the labor which merely consists of assembling a string of letters, placing them properly in the machine and then exerting a light pressure. That's all there is to it.

Bids To Be Opened On May 4 For New Building At ORNL

Bids will be opened May 4 for a new research laboratory building at the Oak Ridge National Laboratory, it has been announced by the Atomic Energy Commission. The proposed new structure will be a two-story building with approximately 161,000 square feet of space with four adjoining one-story laboratory wings.

The building will house the Administrative and Service Divisions with the Physics, Chemistry and Technical Divisions occupying the laboratory wings. The project is a part of the \$19,000,000 construction and improvement program at ORNL.

The successful contractor will be allowed 540 calendar days to complete the job.

Air vents and thin walls make convenient "listening posts" for overly curious persons.

Containers Of Compressed Gas Safety Hazard If Overheated

Cylinders containing compressed gas become definite safety hazards when exposed to any extreme heat—from the rays of the sun or other sources—and care should be taken by Y-12ers in handling such containers. This precautionary warning comes from the Safety Section of Carbide and Carbon Chemicals Division, Union Carbide and Carbon Corporation, that cites an account of a recent accident in another industrial plant to describe what happened when a cylinder containing carbon dioxide was exposed to the heat of the sun.

Other Gases React Similarly

Here is the account of the mishap that brought the warning not to expose gas cylinders to heat—and it is pointed out by the Y-12 Safety Department that other gaseous materials as well as carbon dioxide react similarly if overheated.

"Recently a large carbon dioxide gas cylinder was removed from its place on a pier to be weighed. It was placed in the sun in an upright position. Because of the increase in pressure caused by the heat of the sun, it is presumed that a

Air Force Group Of Reservists Planned Here

Any Y-12er who holds a reserve commission in the United States Air Force is invited to an organizational meeting at 7:30 o'clock next Monday night, March 6, when plans will be laid to form an Air Force Reserve Provisional Group, it has been announced by Col. William Britton, of the USAFR. The meeting will be held in the public health conference room on the second floor of the City Administration Building.

George Oliphant, of Y-12, is among the Air Force reserve officers in Oak Ridge interested in formation of the reserve group. Any Y-12er wishing information on the project may obtain it from Oliphant, telephone 7454.

The group is being organized for reserve officers employed by the Atomic Energy Commission or its contractors. Similar groups are being formed at other AEC installations throughout the country.

Fluorescent Lighting Makes Streets Safer

Motorists and pedestrians can look forward to more comfortable night lighting on highways and byways, the National Patent Council reports.

Better Visibility Created

A recently developed fluorescent street light, it is claimed, provides a softer, more pleasing light and creates better visibility for motorists, particularly on a wet pavement. It is maintained that the lamp has higher efficiency with a relatively long life.

The new street light is described as a cigar-shaped aluminum tube containing two pair of eight-foot-long fluorescent lamps. Two long highly polished reflectors mounted back to back direct the light from the lamps through clear plastic windows to the street. The result is a less glaring light because it comes from a larger area and because the lamps are almost entirely concealed from the motorist's view.

New System In Infancy

Fluorescent street lighting is in its infancy and is just beginning to grow. Construction of fixtures for the two 9,000-foot tubes of the Brooklyn-Battery Tunnel is underway. It is predicted that tomorrow's fluorescent-lighted highway will be a safer road to travel.

ROCHESTER HAS CYCLOTRON

The New York Herald-Tribune has reported that Dr. Sidney W. Barnes has been appointed to take charge of the new cyclotron at the University of Rochester under the project sponsored by the Office of Naval Research and the Atomic Energy Commission.

fracture of the control occurred. "The carbon dioxide gas was released from the heavy cylinder in such a manner that the cylinder took off as though jet-propelled. The heavy cylinder traveled 115 feet, struck a piling and was deflected, traveled another 90 feet and during the course of travel reached a height of 30 feet before it fell. Fortunately no one was in the path of the flight, and the only damage done was to the pier and to the cylinder."

Pressure Increases With Heat

When containers of carbon dioxide or other gases are removed for checking or other purposes, every precaution should be exercised not to subject the cylinder to excessive heat from either the sun or other source. The pressure of the compressed gas increases rapidly with any increase in temperature.

As a result of this occurrence the industrial plant where it happened has been keeping its compressed gas containers away from the rays of the sun, if stored outside, and in the coolest possible locations if kept inside buildings.